thetech.com

Volume 138, Number 3



WEATHER, p. 2 Chance Rain

SAT: 51°F | 36°F

Mostly Cloudy

Thursday, February 22, 2018

BetterMIT Innovation Week features speakers, makeathon

Participants develop ideas for improving student life

By Matthew Baldwin

Last week, students took part in workshops and listened to talks as part of the BetterMIT Innovation Week. These undergraduate-run events included talks from public figures such as NASA's Acting Chief Technologist Douglas Terrier. Following the Innovation Week was a community makeathon in which teams competed for a \$100 prize given for an idea that would impact student life at MIT.

"A friend of mine and I went to TEDx in Cambridge and we came

back to our first [BetterMIT] committee meeting, drafting what kind of ideas we can come up with to make MIT better," Kaila Pfrang '21, a member of the Undergraduate Association's Innovation Committee, said in an interview with The Tech. "What if we brought something like a TEDx to campus?"

One event the BetterMIT team planned, called the World Speaker Series, featured Terrier: Linda Foster, head of innovation at Lockheed Martin; Rebecca Hui, founder of Roots Studio: and Reinaldo Normand, from the Martin Trust Center

for MIT Entrepreneurship.

During his speech, Terrier talked about NASA's new endeavors. "All of our exploration is driven by technology," he said before playing a short video with phrases including "We will return to the moon" and "Working together, we go farther." Focusing his speech once again on innovation, Terrier said that NASA's continuing success relies on "maintaining our innovation edge." Terrier also commented on the fact that four of the twelve people to step on

Innovation, Page 2



The ring committee revealed the Class of 2020 Brass Rat at the ring premiere last Friday, Feb. 16 in Kresge Auditorium.

Panelists discuss ethics of big data Emerson prof.: marginalized

perspectives should be prioritized

By Mark Goldman STAFF REPORTER

Three contributors to the MIT Museum exhibit Big Bang Data convened to discuss to discuss big data justice at the museum Tuesday. The panel discussed their views on the biggest issues facing society with regards to big data and how best to move forward.

The panel included Jose Luis de Vicente of Sonar+D, visiting curator of Big Bang Data, Joy Buolamwini G of the Media Lab and founder of the Algorithmic Justice League, and Catherine D'Ignazio, assistant professor at Emerson

College and research associate at the Center for Civic Media.

de Vicente said the impetus for the exhibit was the transition from data being created by large institutions to being driven by social

When asked about their view on the biggest issue in big data justice, D'Ignazio emphasized the need to prioritize the perspectives of those most marginalized throughout the decision-making process. She mentioned reading a paper regarding a participatory smart city, where the only stakeholders at

Museum, Page 3

Class of 2020 Brass Rat design revealed in annual premiere

Hacker's Map includes floor plan of Senior House

By Christina Warren

The Class of 2020 Ring Committee held the premiere event for the class's Brass Rat last Friday.

The event was attended by most of the sophomore class, with the line for admittance wrapping around Kresge Auditorium. After a joke bezel presentation (featuring a "This is fine" dog meme) the Ring Committee presented its design over a constant buzz of excitement.

The main bezel shows the iconic beaver mascot holding out a globe, on which the continents are arranged into the supercontinent of Pangaea. According to the designers, this is to represent the diversity here at MIT, but also our unity. The beaver, who also happens to be wearing a '20 ring of its own (also depicting a beaver wearing a '20 ring...), is flanked by the familiar skylines of Cambridge and Boston, with the solar eclipse of last summer rising above the Longfellow Bridge. Various Easter eggs paying homage to hacking, punting, and tooling culture at MIT, ranging from an IHTFP banner to the Green Building tetris game, are generously scattered throughout the bezel.

Traditionally, the Seal Shank, the panel of the ring which showing the Ring Committee's rendering of MIT's seal, depicts two men representing a craftsman and a scholar. The Ring Committee this year follows the decisions of several past Ring Committees by featuring a woman as the craftsman: Riri Williams '20, the Marvel superhero who reverse engineered an Ironman costume in her dorm room at Simmons and became Ironheart.

On the inside of the ring is the traditional Hacker's Map, depicting MIT's underground tunnel system. This year's map includes the floor plan of Senior Haus, memorializing the dorm. The map also features a paintbrush in place of the tunnel where the Borderline Mural Project now adorns the walls, commemorating community and artistic expression.

The ring delivery is scheduled for Friday, April 20, at the Boston Public Library, a location featured on the ring's depiction of the Boston skyline.



Taylor V'Dovec '19 goes for the net in the game against Coast Guard Women's Basketball team Feb. 17. MIT beat Coast Guard 58-38 in the game.

Theta Tau freshmen grabbed Tech stacks Newspapers, flyers used to make

confetti for internal fraternity event

By Patrick Wahl and Jessica Shi

Four freshmen members of Theta Tau were found to have taken some of the stacks of The Tech that went missing Dec. 8, according to an emailed statement from Karleigh Moore G, chairman of The Tech. These papers were used to make confetti for a fraternity event.

The Tech reported that approximately 3,050 copies of its papers went missing within a day after they were distributed.

Moore informed the MIT Police of the incident Dec. 8.

"The police cross-checked a list

of distribution locations of The Tech and places that had security cameras," Moore wrote. Moore was told that police found footage of two students taking stacks of papers from Maseeh and two others taking stacks near Building 66.

"Papers were taken from more than just these locations," Moore added.

The police were able to identify the individuals and informed Moore that all four were freshmen on ath-

After receiving the results of the police investigation, Moore filed

Theta Tau, Page 2

IN SHORT

Feb. 23 is the minor comple-

The PyeongChang 2018 Olympic Winter Games Closing Ceremony will be held at 6 a.m. EST Sunday.

Add date for full-term sub-

Deadline to submit events for CPW is March 1

The deadline for freshmen to accept early sophomore standing is March 9.

The Tech is looking for news and sports writers. Please write to join@tech.mit.edu to get started.

Send news and tips to news@ tech.mit.edu.

CREATING COMMUNITY

Read one student's perspective on founding a sorority. **CAMPUS** LIFE, p. 5

LAB OF THE WEEK

The Masic Group hopes to translate the merits of ancient structural materials to those of today. SCIENCE, p. 9



SCORING SLICES

The first installment of our pizza column features Posto in Davis Square. ARTS, p. 7

LIVE, LAUGH, LOVE

Auntie Matter dispenses advice to those lost in life and love. CAMPUS LIFE, p. 5

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Thursday, February 22, 2018

WEATHER

Taste of spring fades away

By Kyle Morgenstein and Jordan Benjamin

Boston enjoyed a treat over the past several days as extremely anomalous high temperatures in the 70s overspread the Northeast. Many towns across the Northeast set record highs on Wednesday as temperatures soared in many areas into the mid and upper 70s during the afternoon. Boston reached 70 °F (21 wv°C) on Tuesday and 72 °F (22 °C) on Wednesday, the 3rd and 2nd warmest February days on record. These are the first 2 70+ °F days in the same February on record (the only other 70+ °F February days on record were in 2017 and 1985). The average temperatures for Boston on Feb. 22 are a high of 40 °F and a low of 26 °F, highlighting how truly anomalous the recent warmth was. Today features starkly different weather. As a cold front pushes

across the eastern United States, a weak low pressure system is sliding rapidly through southern New England bringing light rain and snow showers to the Boston area. Meanwhile, the high pressure, located off the southeast US coast, that facilitated the recent warmth will persist and prevent any significant cold outbreaks during the next several days. Temperatures will return to average to slightly above average over the next few days, with highs in the 40s and 50s °F and lows in the mid to upper 30s. Analyzing the winter as a whole, before the recent warmth the quick-hitting snowstorm last Saturday night brought 5.6 inches (14.2 cm) of snow to Boston, keeping the city on pace for an average to slightly above average snow season. Boston has received 34.8 inches of snow so far this winter (normal is 31 inches). Last year at this time, Boston had received 36.3 inches of snow.

Extended Forecast

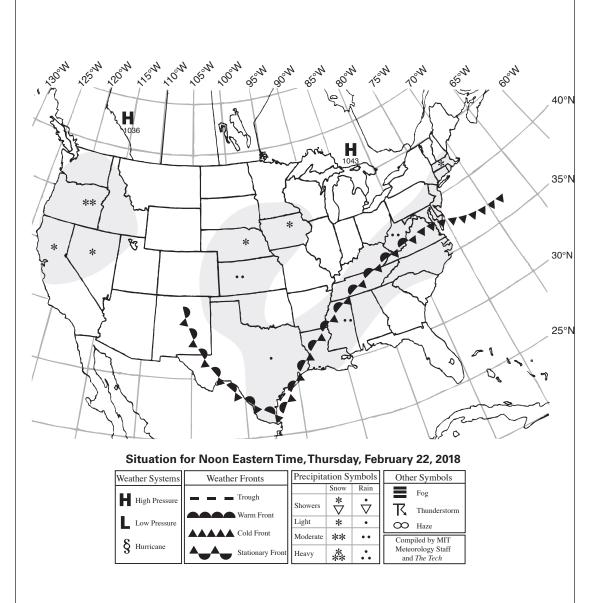
Today: Chance of rain midday, with snow/sleet likely in the afternoon, but with little to no accumulation. High around 40 °F (4 °C). Winds N at 5–10 mph.

Tonight: Snow/sleet will continue into the evening, still with little to no accumulation. Low of 30 °F (-1 °C). Winds NE at 5–10 mph

Tomorrow: Rain continuing into the afternoon. High of 40 °F (4 °C). Low of 36 °F (2 °C) Winds NE at 5–10 mph.

Saturday: Chance of rain late in the evening. High around 51 °F (11 °C). Low around 36 °F (2 °C).

Sunday: Rain likely. High of 42 °F (6 °C).



Campus map application takes first prize

Innovation, from Page 1

the moon were MIT graduates.

"You guys are kind of a pipeline of innovation," he said. "By all means, challenge ideas, change processes, challenge tradition."

The weekend makeathon kicked off Saturday at noon, drawing in students willing to take on the challenge of changing student life at MIT. Mentors from MIT organizations were present to help students achieve this goal. Students worked, aided by free

food, through to the evening before retreating to rest for the following day.

With snow on Saturday night, students were reluctant to arrive for the 8 a.m. start, but by Sunday afternoon students began to arrive once again to continue their projects. Giancarlo Delfin'20, Joaquin Giraldo '20, and Jackie Lin '20 worked during the makeathon to produce a map application to help other students find their way around campus and look up nearby events.

"Students will be able to find other students working on psets and be able to set up a time and place to work together," Delfin said. "We'll be able to avoid having tourists stopping us for directions every five minutes."

This team went on to win the \$100 makeathon first place prize.

After Innovation Week, *The Tech* spoke to UA officers Malte Ahrens '19, Michael Amoako '19, and William Wu '19. The group talked about their enjoyment in making the project come together.

Ahrens commented on the difficulties of running the makeathon for the first time. "When something exists it's easy to keep it in motion ... there's so many unknowns and so many things that are dependent on your own conception," he said. Ahrens also pointed out the difficulty in gauging student interest and attendance in the first year.

But despite the challenges the team faced, they seemed optimistic for future years. "We had a lot of factors against us," Amoako said. "Our ultimate goal is to have this be a recurring annual [event] that hopefully can one day reach capacity [similar to] HackMIT."

Wu explained that BetterMIT's overall goal is to inspire students to come together not just over psets but also to make life better for one another.

He said, "People ask, what do you think is MIT's secret sauce, is it the funding, is it the professors, is it the research? But for me, I would say it's the student community."

A few freshmen got 'too eager,' Theta Tau pres. says

Theta Tau, from Page 1

a complaint with the Committee on Discipline (COD) Jan. 18. Last Thursday, Moore wrote, she learned from Executive Officer of the COD Tessa McLain that the suspects were all members of Theta Tau.

Andy Rodriguez '19, Theta Tau's current regent, explained what had happened in a phone interview with *The Tech*.

Per Theta Tau's tradition, about a week before their "big bro, little bro" event, where new pledges find out who their "big brothers" are, all members were asked in a fraternitywide message "to grab copies of newspapers, flyers, anything they can find," Rodriguez said.

"As people are walking about campus or in the city, if they see some free papers, if they see a big stack of flyers, or whatever it may be, they may grab a couple copies and bring it back to the house," Rodriguez explained.

However, a few freshmen who saw the gradually accumulating stacks of papers and flyers in the Theta Tau house got "perhaps a little too overzealous, a little too eager about the event" and grabbed "numerous" copies of *The Tech*, Rodriguez said.

A few people in Theta Tau voiced concern that unprecedented quantities were collected, according to Rodriguez. However, nobody realized "that anyone was being hurt by the actions of our fraternity" at the time, as otherwise, "something would have been done," Rodriguez continued.

One of the freshmen under COD investigation corroborated most of Rodriguez's account in an interview with *The Tech*.

"People all over, whether it was freshmen or sophomores, whoever

felt inclined to contribute, went and got some newspaper," he explained. "I took about a stack [of *The Tech*] from the Infinite, and from there I brought it to the house."

Although the four members under COD investigation happen to be freshmen, the incident did not involve any hazing, he emphasized. "There was no pressuring of any freshmen to get newspapers. Some freshmen in the pledge class didn't get any newspapers; there was no consequence. ... There was no pressure at all."

McLain noted to Moore that only the individuals, and not Theta Tau as an organization, would be held responsible, because the organization did not encourage its members "to take large quantities of *The Tech* explicitly," Moore wrote. McLain declined to comment to *The Tech* on the case.

Members of The Tech arrived at

the estimation of 3,050 papers by going around campus to distribution points and summing "the numbers of papers that were delivered to each location that [were] suddenly completely empty," Moore wrote.

The missing papers constituted about half of *The Tech*'s distribution, Moore said in a follow-up interview. According to an email from Christopher Wang '19, business manager of *The Tech*, the Dec. 7 issue cost \$1,000 to print and \$237 to deliver.

"When I talked to our risk manager last semester, he had expressed a concern that 3,000 [missing papers] seemed to have been a little absurd," Rodriguez said, adding that he did not mean that *The Tech*'s estimates were necessarily incorrect.

Moore said there is a possibility another group coincidentally also took large quantities of *The Tech* Dec. 7-8, although she finds that unlikely.

The Tech published two notices about the missing newspapers in the week after their disappearance, one in the form of a letter from the Executive Board and the other in the form of a box on the front page.

As for why Theta Tau chose not to alert *The Tech* of their involvement earlier, Rodriguez said he did not see the notices, while the freshman mentioned that *The Tech*'s reference to a police investigation discouraged them from reaching out.

"Throughout the house, we didn't think it was that big of a deal until we saw the [COD] email, and then we were like, all right. Now we recognize that it's a huge deal. I mean, I wouldn't say huge, I would say it's a — we definitely want to apologize. At the same time, it's just not going to happen again," the freshman said.

Nafisa Syed contributed reporting.

DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (hint: yours!).

Email your pieces to cl@tech.mit.edu!

Thursday, February 22, 2018

Facial recognition tech has racial bias

Museum, from Page 1

meetings were researchers, developers, and construction firms.

Buolamwini also noted a lack of representation, describing an issue in facial recognition with "supremely white data put into predominantly male analysis."

In discussing ways to educate people, Buolamwini described a ProPublica investigation which raised public awareness of racial bias in machine learning algorithms and said that the Algorithmic Justice League she founded lowers the barrier for more people to make similar discoveries.

D'Ignazio said that emphasizing data literacy in education and having journalists describe their methodology when presenting data can help the population better determine whether an analysis is trustworthy. When convincing people that data usage is important, she recommended telling stories of data misuse.

de Vicente argued that the need for political pressure to regulate usage of big data is more critical than increasing awareness, an example being the lack of transparency when Volkswagen used code to fake emissions tests.

D'Ignazio responded that to get

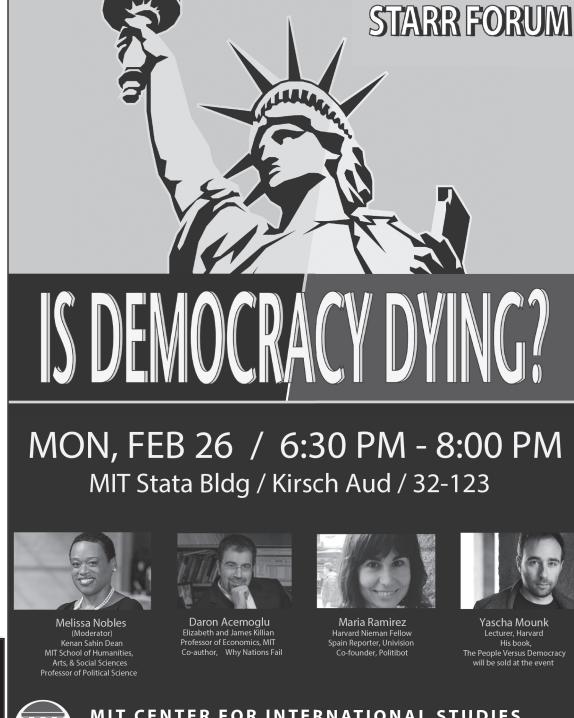
public will for political change, engagement is necessary.

When asked about tools for teachers, D'Ignazio described the importance of informing students of issues while not disempowering them. She listed a few resources: the AdNausium browser add-on, which deliberately clicks on all advertisements to obfuscate browsing data, the LightBeam browser add-on, which visualizes third party tracking of internet usage, the databasic io site, which lowers the bar to use data and has lesson plans for educators, and data aggregator Acxiom, where users can view the collected information on themselves

de Vicente said that the tech industry is in a "moment of soul searching." The industry thought its innovations were for the general good, but the good world envisioned did not materialize, he explained.

While none of the panelists described a line between ethical and unethical uses of data. Buolamwini said that she would definitely classify lethal autonomous weapons with the ability of facial recognition as unethical.

The Big Bang Data exhibit is available until the end of March. MIT ID holders receive free admission to the museum.







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LETTER TO THE EDITOR

Commentary on MIT's new course, MIT and Slavery

The recent revelation that William Barton Rogers owned slaves has prompted a proposal by President Reif that the MIT community examine not only Rogers's actions, but the distasteful attitudes of some alumni of many decades past by means of a new course, MIT and Slavery.

No one, we hope, would advocate slavery today, but those who look at people's actions in the somewhat distant past through the lens of majority, though not universally accepted, moral precepts of

LETTER TO THE EDITOR

Four centuries, three Larrys, and one woman

Emily Nussbaum once joked that latenight television features more dudes named Jimmy than women. Last week, Harvard achieved a similar milestone. In tapping Lawrence S. Bacow for its top post, Harvard's list of presidents now includes three men named Lawrence and one woman (outgoing president Drew Faust). For that matter, women are also outnumbered by Samuels (four), Johns (three), Charleses (two), and Jameses (two). Women are tied one-to-one with men named

today are playing a self-destructive game. Is it legitimate to expect that our forebears should have anticipated the prevailing morality of today? If so, then we had better be concerned about our own actions and make an accurate forecast of the future, but how far forward? Should we try for a decade, a century, or go big for a millennium?

We could speculate that our descendants might vilify us for our power of life and death over animals, our unwillingness to live an eighteenth century lifestyle to avoid using fossil fuels, or our desire to watch violent contact sports. Are the accomplishments of ancient civilizations tainted by the pervasiveness of slavery centuries ago?

Oceans of blood and centuries of misery were needed to progress from the practices we no longer deem legitimate to those of

Eliphalet, Urian, and Increase. Incidentally, men named Cornelius also outnumber people of color 1–0.

President Bacow's former home at MIT — the Department of Urban Studies and Planning — has a remarkably similar roster. The list of DUSP department heads includes two Larrys and one woman, Amy Glasmeier. Of course, there is no doubt that Larrys Vale, Susskind, and Bacow served MIT with dignity and competence. (Regrettably, the same is not necessarily true of Larrys Lowell and Summers. As president of Harvard, the former Larry proposed a cap on Jewish admissions. In the same role, the latter Larry once explained women's underrepresentation in the upper echelons of academia with the line "in the special case of science and engineering, there are issues of intrinsic

our time, yet we commonly accept some, such as abortion, out of wedlock births and recreational drug use, which have been universally condemned in the past. We would be fools to believe that this road ends with us. There is virtually no dissent today that slavery was grossly immoral, but responsibility for slavery lies with the actors, who are long gone, as are the ones who waged the most violent struggle in our history to eradicate it.

I hope that the new course will not be a platform for projecting guilt forward or judgment backward in time. There is merit in acquiring and acknowledging facts from the past, but passing ex post facto moral judgement on them deprives us of a correct understanding of history, of human nature, and of our own state of being.

— Bill Charles '68

aptitude.")

Regardless of any given Larry's qualifications, President Bacow's appointment is a missed opportunity to correct a record of inequality at the helm of our most prestigious universities. In 2015, MIT's Graduate Writing Exam asked many incoming students to explain why women hold a minority of tenured faculty positions worldwide. As a new grad student, this prompt encouraged me that the Institute recognized its responsibility as an equal opportunity employer. Last week, the announcement at Harvard reminded me that changes at the top are a symbolic occasion for universities to fulfill that obligation. Harvard took a pass.

— Scott Middleton G Department of Urban Studies and Planning



CORRECTIONS

An article in last week's issue about MIT's relation to slavery featured an inaccurate statement about MIT founder William Barton Rogers's ownership of slaves. The evidence for Rogers's slave ownership was in 1850, not 1860. Of his six slaves, there

was only one child, a 10-year-old boy, not multiple children. Furthermore, the "negro serving man," Levi, who sparked the research into Roger's slave ownership history, according to Nora Murphy, "Was not present at Rogers' memorial service, but one of the speakers (Jedidiah Hotchkiss) mentioned him twice during his remarks."

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Thursday, February 22, 2018

The Tech 5

On sororities and the force of friendships

How I realized that choosing people is natural

By Chloe Yang
STAFF WRITER

I remember our first meeting. I felt a quiet kind of excitement — the same sort of emotion you have while watching a newborn turtle crawl towards the ocean in a nature documentary, and you root for the little guy, though they're just an infant against the hugeness of the world. As I looked around McCormick's east penthouse, at all the faces I didn't know, I felt as though we were all crawling toward the ocean together, and I hoped we would make it.

Over time, these strangers would become my friends. We would find ourselves making (and eating) mountains of dumplings, playing aggressive rounds of Bananagrams, watching sappy movies, laughing, stressing, and demolishing chicken nuggets together. I couldn't have foreseen this

at our first meeting, though. If I had, my excitement would not have been so hushed.

Before I met this group of wonderful people, I was wary of "forced" communities. I defined this term as any group that threw strangers together under the premise of friendship — the people would bond, but in what I thought was a simulated way. Examples included frats, sororities, and so on.

I didn't understand the mechanics of a community that was built with the premise of future rapport. Wasn't that just faking until the pretense felt real, done at the risk of pretending forever? I looked sideways at those communities, so I avoided that part of campus life. I loved the friends I'd made already; I loved the closeness I felt with my floormates in my dorm. I was happy enough.

Yet, at the same time, I felt overwhelmed by the sheer magnitude of incredible people at MIT. There were all these amazing peers that passed me every day, each a treasure trove of quirks, talents, and interesting thoughts. I felt that each person who passed me by was an open door slamming shut. On top of all this, those "forced" communities seemed to be doing just fine, and they were opening those doors to each other when I could not. I struggled to understand how.

As a result, when one of my close friends invited me to take part in the group she was helping to start — a sorority under MIT's interfraternity council — I was dubious but open to the idea. This is how I found myself in McCormick's east penthouse, seated on a couch by the window and thinking about baby turtles. Though I felt awkward at our meetings at first, I enjoyed talking with other members of the group each week. We came to know each other better, and I came to understand the specialness of a "forced" community.

When one of our sisters starred in two amazing plays, many of us went to both

and cheered her on. When another member returned to meetings after a long period of stress and work, we welcomed her to the table as though she had never been absent. When we watched *Clueless* and screamed at the TV together, I felt connected by our shared affection for young Paul Rudd.

Having a group full of people I like and care about, who like and care about me, has made me appreciate the importance of intentional friendship. I couldn't have foreseen these relationships, but I am now part of a supportive bunch of smart, weird (in the best way), funny, and kind people. I was mistaken before. A community is not forced. A community is chosen. Friends don't just happen to us naturally in the way I'd previously imagined. Rather, friends choose each other. I'm glad I decided to choose this community, that we decided to choose one another. If we had to start over, I'm sure we'd all make the same choice, together.

CAMPUS L

ADVICE

Not in love with this

Auntie Matter on when you're just not feeling it

By Auntie Matter

If you have questions for Auntie Matter, please submit them at tinyurl.com/ AskAuntieMatter. Questions have been edited for length, clarity, and content.

Dear Auntie Matter,

I am taking five different classes in three different majors this semester because I wanted to find something I like to do. But as usual, I don't like any of them. I keep joining and leaving clubs in the hopes that I will find a hobby to enjoy, but that never works, either. I am always unhappy with what I have. I find no enjoyment in life. What should I do?

— Ünhappily Ungrateful

Dear Unhappy,

I admire the fact that you are trying to figure out what makes you happy by taking a broad range of classes. I think, even though this strategy isn't working out yet, it will eventually pay dividends. Figuring out what you want to do isn't always a fast process. It can seem like everyone else knows what their dreams are. In reality, the vast majority of MIT undergrads are very young people who are going to change a lot in the near future. Keep your head up and continue exploring academically — you'll figure it out eventually.

In the meantime, you seem to be in a bad place. One way to help would be self care. Does exercise make you feel good? How about listening to music? Cooking? Get in touch with the things that bring you pleasure. Especially if you find "no enjoyment in life," a good place to start would be with some small, pleasurable acts.

You mention trying and leaving new clubs frequently. While trying new things (and meeting new people) is great, I encourage you to stick with a community you find agreeable. Having a consistent group of friends that can support you will mean there is something good about your life,

even if classes and clubs aren't going your way. Like the Girl Scouts song, "make new friends, but keep the old."

Another way to feel that you have more is to recognize *what* you have. To quote Rilke, "If your daily life seems poor, do not blame it; blame yourself that you are not poet enough to call forth its riches." Some people suggest writing a list each night of a few things you are grateful for. Auntie finds it improves her life tremendously to be awake to the beauty in the world. See if you can notice a tree, or a flower, or a shaft of light on a friend's face. If it strikes you, recognize the beauty in the moment.

The above are all suggestions to improve your life, but sometimes we are having so much difficulty that we need help to begin. Mental Health & Counseling on MIT's campus is always available, as well as off campus providers. If all of these suggestions seem impossible, seeing a mental health provider might be a good place to start.

Dear Auntie Matter,

Last night, my girlfriend of one month told me we had to talk. She said that she had been feeling pressure to move too fast. She said she had to tell me she didn't love me. Auntie, I don't love her either! It's been a month! But, if she says this now, will she ever love me? She said this is all internal pressure, but is it something I did? Why would you tell someone you didn't love them? GQ did not prepare me for this.

— She Loves Me Not

Dear Not,

Believe it or not, Auntie has been in a similar predicament in her own lurid love life. She recommends the following approach.

First, you should ask her why she said she didn't love you. Is she reacting to your behavior — for example, does she feel you are too clingy, or that you have been pushing the relationship forward too fast for him?



Or is more of an issue with her insecurities?

If she says she's reacting to you, you should ask her what is bothering her. It could be that she is misunderstanding some of your behaviors — perhaps you text her more than she is used to, or you've asked her on one too many dates for the amount of time you've been together — and now would be a good opportunity to clarify both of your expectations. In the best case scenario, you can reach a deeper understanding of each other. In the worst case, you may discover you're not compatible after all, and break up

If she is not reacting to you, it could be a red flag. Maybe she has commitment is-

sues that will make your relationship more difficult down the line. Maybe she's afraid of love, and she'll keep telling you that she doesn't love you every month to avoid facing that fear.

On the other hand, maybe you should just tell her to stop being so extra, and that, no, you don't love her either. If she agrees that she was overreacting, and understands why her comment was hurtful, it might be that she was a good woman who said a dumb thing.

Finally, Auntie Matter believes that someday you two can remove the "don't" from "I don't love you." After all, it *has* only been a month

Have something to say? Write **opinion** for *The Tech*!

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6 THE TECH
THURSDAY, FEBRUARY 22, 2018



Eliza is a 10x ninja rockstar full-stack neurolinguistic hacker coding deep recurrent neural nets in Javascript and using them to build actionable insights on big data in the cloud.

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PIZZA COLUMN

Delving into Boston's pizza culture

Posto presents a nice date location in Davis Square



Posto provides a cozy environment for dinner, where breadsticks and chili oil accompanied our margherita and porchetta pizza.

By Hannah Rudoltz

When I was little I had a picture book called How do Octopi Eat Pizza Pie? I'm sure the answer was some math-pun (one slice each), but I know how Octopi would really eat pizza pie: with gusto, since they have remarkably high intelligence.

Pizza is one of my favorite foods; one might even call me a pizza snob. Since I moved to Cambridge from the New York area (read: New Jersey), I have talked about writing a blog or some sort of column

that documents my search for pizza that matches that of my childhood. I have tried the upscale, the hipster, the classic, and the dive in that search for a slice that says "third grade birthday party," or is simply

Now I have reached my last semester at MIT before I graduate and move to New York City (yes, mostly for the pizza). It's my last chance to formalize this search. So, I've started a brief list of places to try or revisit, and drafted some criteria with which I will judge the contenders for Best Pizza near

Pizza ultimately comes down to four components. Warning: my opinions on pizza are strong and rather uncompromising (Among my controversial pizza opinions: Deep dish pizza is not pizza. It is a

I'll be judging pizza this semester based on these components, but also how it all comes together. Do all the flavors and textures work together? And, especially for an upscale pizza joint, is it pizza — or just fancy bread with toppings?

Join me on my pizza odyssey this semester, and maybe you'll discover your new favorite Boston pizza with me. If you have a place you really love in the area, let me know if the comments!

For my extra-special first pizza stop, I chose somewhere I had actually never been before: Posto, in Davis Square. Those MIT students without a friend at Tufts University may see no reason to head all the way up to Davis Square, but it's one of my favorite neighborhoods in the area. It's full of cute cafes and restaurants and has tons of great options for eating. In the warmer months it's so nice to sit outside of Tosci's and Boston Burger Co., but today the weather was snowy and icy and altogether miserable, though the lights on the trees and the brick sidewalks made it feel Christmas-movie cosy.

That vibe continued as we walked into Posto, with its open concept, rustic interior and candlelight. Sure, I was with my friend and photographer Vivian, but I could definitely imagine coming here for a nice date. So I wasn't expecting a greasy slice of dollar pizza (which, don't get me wrong, is one of my favorite foods in the world); Posto does

Posto

Italian, \$\$

187 Elm St, Somerville, MA 02144

Sunday 4:30-9:30 p.m.

Monday-Thursday 5:30-10 p.m.

Friday-Saturday 5-11 p.m.

traditional Neapolitan pies, with dailymade fresh mozzarella and San Marzano tomatoes. We got a classic margherita and a porchetta pie. Here's how each component did:

How did the whole pie come together? My first slice was fantastic. All the flavors melted together in a salty, gooey, cheesy, tomatoey mess. But as the pizza and my hunger cooled, the pie became less amazing, and became merely good.

With a margherita pizza coming in at \$15 and a porchetta at \$18, Posto is definitely not somewhere I would go casually. Neither Vivian nor I finished a whole pizza though, so maybe split a pizza if you choose to go. They also have pastas and salads on the menu, though we didn't try them (this is a pizza project!), and a mocktail we tried was quite good.

Is Posto my new favorite pizza in Boston? Not really. But if you find yourself craving Neapolitan pizza, it's not a bad option.

CONCERT REVIEW

A once every two year experience

DRUMTAO presents a traditional Japanese art form in a riveting way

DRUM TAO

Berklee Performance Center

Feb. 18, 2018

North American Tour 2018 running until May 6, 2018

By Nathan Liang

ASSOCIATE ARTS EDITOR

From the very first drum beat, I felt like I was home. Now, before I continue, I should put in the fact that I was personally very excited for this show for weeks. Growing up, my mother introduced my sister and me to our local taiko dojo, and the rest is history. I performed as part of the Orlando Taiko Dojo for about six years before moving to MIT, and I've missed the energy of the hobby ever since (For those of you who don't know taiko refers to the art of traditional Japanese drumming, typically used for performing at festivals and so forth.)

The moments leading up to the performance feel like forever ago. I walked into the venue with my invited friend, and we guickly found our way to our seats. Before the show, some peaceful, traditional Japanese music played. The kind of backdrop you'd expect in a peaceful Japanese restaurant. This, of course, contrasted heavily with the show that was to come.

And, oh boy, as soon as the show started, the stage exploded with energy, and it just kept exploding until the end of the show a little over two hours later. That's one thing I've always found to be the most impressive part of taiko performances: the endurance and

energy it takes to put on such a great show for so long. Imagining jumping and dancing around a stage and swinging your arms around for two hours with minimal breaks. Now imagine that with drums — that you either carry or play stationary — that can weigh well over 20 pounds and crying out with all your might, just to add that extra umph. And then don't forget the acrobatics and the martial arts showcases and the playing of several other instruments such as the koto, fue, and shamisen. You get the point. Doing this for two hours straight sounds exhausting, but speaking from personal experience, I can tell you that it's so damn fun.

The best part is when the performers' energy bleeds into the audience, and you can feel the performance area just brimming with excitement and joy. Everyone's on the edge of their seat, waiting for the next big bang or trick or acrobatic feat. No matter what the performers did, it was truly mesmerizing and amusing to watch. Some more humorous highlights from the show include the House of Marbles monkey drum-off (yes, that is the actual name for the toy); the part when the performance center is completely dark save for the LED-lined suits and handheld drums of the performances, and just the performers' facial expressions when they knew they could be silly or have fun with the current number.

The unfortunate thing about taiko drumming is that it's so hard to capture its essence with mere words. The best way to experience taiko is to go and see it for yourself, but I will try to touch on the more technical side of

Within the program, it lists that the performers take "a strict, traditional approach to training... The strenuous physical demands of the troupe's performance style require that all performers also train as athletes. Their daily workouts... start at 5 a.m. and end



DRUMTAO is world-renowned for their riveting, high-energy performances.

at 10 p.m." If you couldn't tell already, the group basically lives and breathes taiko, but when you watch them, you can tell that they wouldn't rather do anything else.

Throughout the performance. of synchronisation, skill, and technique on display can be mind blowing for any audience member, whether or not they are new to the art of taiko. Sometimes the performers' hands would move so fast that it didn't even look like the bachi (drumsticks) touched the drum face, yet all you could hear is the heart-pounding beat of the high-energy

Their teamwork is also a feat to behold. The key thing about performing in a group is working together, especially in an art form as highly specialized and skill-based as taiko. The transitions between songs must be smooth and seamless. You must always be performing even if you are not necessarily playing a beat. Some of my favorite parts are when the performers are visibly struggling

to finish the song because it's so intense, but their peers, who are aiding as backup rhythms, cheer them on with their voices and their energy. Together, they form a support network that carries them from one exhausting song to another, in order to put on the show that has dazzled audiences worldwide since the founding of their group.

As is always the case whenever I get immersed into the world of taiko, the drumheats from DRIIM TAO's show will most likely be stuck in my head for months on end. So, a warning to my fellow classmates: don't be surprised if you see me drumming my fingers, tapping my feet, or bobbing my head in the midst of class, remembering the whirlwind that is DRUM TAO when I should be paying attention in class instead.

If you missed out on the show, don't fret! World Music/CRASHarts will host many more once-in-a-lifetime shows to come, especially their big upcoming show CRASHfest, which will take place on Feb. 24!

DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (hint: yours!). Email your pieces to cl@tech.mit.edu! **MOVIE REVIEW**

How do you deal with the loss of a loved one?

A Fantastic Woman explores one possible road of life

★★★★☆

A Fantastic Woman

Directed by Sebastián Lelio

Screenplay by Sebastián Lelio and Gonzalo Maza

Rated R

In theaters Feb. 23

By Nathan Liang

ASSOCIATE ARTS EDITOR

Transgenderism can be a topic some people tiptoe around. In the backdrop of Chile, this Oscar-nominated foreign language film explores it in a slow-moving, yet very real

Marina Vidal (Daniela Vega) is a transsexual woman, waitress, and aspiring singer. Orlando (Francisco Reyes) is her much older romantic partner. On the night of her birthday, Orlando takes her out to dinner before returning to their flat to celebrate further. Then, in the middle of the night, he falls ill and must be rushed to the hospital, where he promptly passes away; here starts Marina Vidal's journey of self-preservation in the face of adversity.

Orlando's son, Bruno (Nicolás Saavedra), abruptly invades Marina's life, throwing insults and demanding that she leave his father's flat as soon as possible, or else he'll be forced to kick her out himself. But this is only the beginning of the son's questionable actions, and the end is a violent one.

Unfortunately for our dear protagonist, this is only the beginning of her troubles with Orlando's family. Orlando's ex-wife, Sonia (Aline Küppenheim), bars Marina from attending Orlando's wake and funeral and slowly tries to wean her of his possessions by first asking for his car and then asking her to leave Orlando's flat.

The film progresses like this throughout its entirety, showing how one life decision can cause so much controversy. However, the film is not all about adversity. It does a good job of showing how different kinds of people react towards Marina's presence and how she still maintains her identity and individualism with courage and empathy. Some people are confused when they meet her. Some politely acknowledge Marina's choice. Some become monsters by attempting to vilify Marina. Then, there are the ones who truly accept Marina to the point that she feels comfortable being around them, or maybe she feels uncomfortable because she doesn't understand their unwavering acceptance.

It's interesting, yet also horrifying, to see the film throw so much at Marina. It confronts questions that I ask myself as a transgender male: will there be people who will treat me with violence? Will there be people who will see me as a human being or as a monster? Will I ever truly fit in and pass happily as the gender I choose to be?

Throughout the movie, you can see Marina struggle with these questions as she passes through obstacle after obstacle. The world feels like a colder place without the comforting Orlando by her side, but it is her memory of him that helps her push forward and reminds her that she can be loved and accepted, rather than being constantly viewed as something inhuman.

For some, this movie may seem slow and very linear. It focuses on Marina's dayto-day ongoings as she deals with Orlando's death and the suspicions thrown at her from all sides following it, yet there is still a lot to



COURTESY OF SONY PICTURES CLASSICS

Daniela Vega stars as Marina Vidal in A

appreciate. Lelio champions a raw, compassionate look at Marina's slice of life, and the nominations for his work and Daniela Vega's performance are well-earned.

There are many moments in which Marina stares at herself in the mirror, as though reaffirming her confidence and acceptance of herself. In these moments, I see myself in her shoes, and it makes me feel grateful for the way the film handles her hopeful individualism and defiant beauty as a fantastic woman.

CONCERT REVIEW

May I direct your attention to... orchestral music

Listen, and watch the director, he's great

By Erica Weng STAFF WRITER

Is the average age of the orchestral audience increasing? It definitely doesn't seem to be decreasing. When you're the youngest member in the audience, it's hard but to notice that the sea of heads in the audience are mostly white or graying. I wonder how long it will be before orchestral music disappears entirely from the front of live musical performance, and then all we'll be left with are rave-like pop concerts with obnoxious blasting music and flashing lights.

At MIT, I imagine only a fraction of us care a thing about orchestral music; and then, a tinier fraction of those actually would actually go see an orchestra concert. I would like to guess that many audience members of such a performance have previous experience playing an orchestral instrument. (All those I asked during the concert responded in the affirmative — but I'll admit my sample size was a mediocre three people.)

I'll admit, I personally don't rave about orchestra music. This was my first BSO concert, and I spent most of the performance fixated on the director — who goes by the extremely sophisticated appellation, Andris Nelsons — rather than on the actual music. Don't get me wrong, the music was quite excellent. At least, in my limited understanding of musical excellence: performed with an air of officiality and regality, consummate in technical skill and precision, perfect along any dimension of measurement. I really couldn't find fault with it. But rather than prattling on about how excellent something was that I really don't understand, I'll chat a bit instead about Mr. Nelsons, who quite stole the show with his captivating conducting.

He begins a piece softly petting a dog; his left hand low, stroking gently at the fluffy pelt of air. The dog then transforms before his eyes into a dementor — and Mr. Nelsons must wield his wand of a baton to fend it off! Expecto Patronus! Expelliarmus! AVADA KEDAVRA!! The tip of his wand darts back and forth, an insect alighting on thorns and thistles and springing back up into flight.

When Schumann swells into ocean waves and static-filled thunderclouds, Mr. Nelsons contorts his whole body in an arc of pain. He's an actor, portraying a tragic scene in a tragic play. He staggers backwards on the conductor's platform, clutching at the wooden banister behind him for support. (Gosh, did he portray that scene effectively

— he may very well have collapsed over the edge if that banister wasn't there to catch him.) As the waves die down, his drama is replaced by a calm indignance — solemnly, he jabs his batons at the English horns and prods at the violins to quiet down.

Then, a trickle of notes transforms Mr. Nelsons into a thief — back crouched, shoulders hunched, wrists cocked like a velociraptor clutching a prize of a hairy rodent snack. Almost as quickly he transforms into an automaton as rigid as a stork; he clutches the edge of his full dress tailcoat with one hand, drawing out sharp jagged movements with the other: down, side, up, down, side, up. Next he is a fencer, pointing and jabbing here, there, here at an unseen enemy. Then he is a martial artist — waving and stirring at the air with long, sweeping movements of his entire body, as if feeling for the energy currents circulating around him. Finally, a light, fluttery motif transforms the baton into a large paintbrush, and he skillfully begins applying deliberate strokes, wide arcs, splatters and dabs and dots, to a blank canvas. And that's the performance. It all revolved around the director - with his animated movements and the commanding authority of that insect-like baton, an excellent clothwork of music unfolds from Week 15: Leipzig week in Boston

Andris Nelsons, Music Director

Performed by the Boston Symphony Orchestra

Music by Bach, Schumann, Sean Shepherd, and Mendelsohn

Boston Symphony Hall, 301 Massachusetts Ave, **Boston, MA 02115**

Feb. 8, 2018

the sea of brass and strings for an audience's enjoyment. The applause goes on for eons afterwards; I clap a few times before my hands get tired, and then I just sit and indulge in the sounds of the sea of applause. It's almost as pleasant as the music.

MOVIE REVIEW

A long summer fling

Call Me by Your Name delivers gorgeous spectacle in depicting intimate romance

★★★☆

Call Me by Your Name

Directed By Luca Guadagino

Written By James Ivory

Starring Timothée **Chalamet and Armie** Hammer

Rated R

By Ethan Vo STAFF WRITER

Adapted from André Aciman's novel of the same title, Call Me by Your Name explores a homosexual romance over the course of a summer in rural Italy during the

'80s. Elio (Timothée Chalamet), an intellectual Italian 17-year-old, finds himself immediately attracted to Oliver (Armie Hammer), a 24-year-old American who is helping Elio's father as a temporary research assistant. Elio's confusion and humiliation about his feelings propel his coming-of-age as he simultaneously juggles maintaining his relationship with Marzia, his girlfriend, and his encounters with Oliver. Buoyed by superb performances from Chalamet and Hammer, the film contains scenes that are both narratively powerful and stylistically appealing.

One of the most immediately striking features of Call Me by Your Name is its audiovisual direction. The film combines a lush orchestral score evocative of Elio's fondness for classical music with songs by Sufjan Stevens, who is known for his work in many genres, including indie folk and baroque pop. Stevens's tender voice and touching lyrics contribute a great deal of poignancy to scenes. This meshing of different styles is not simply for ambience either; it helps to establish the unification of Elio's precociousness with his desire for young love. On the visual front, the film contains beautiful cinematography that captures the Italian countryside in all

its resplendent glory. Excellent camerawork gives scenes great staying power: long takes heighten emotions during a bike race and Elio's final scene. The camera occasionally loses focus during the physical encounters between Elio and Oliver, conveying a nostalgic intimacy through the graininess. These vibrant stylistic choices work naturally with the story's visual imagery and symbolism, such as scenes involving fruit or swimming. Concerning narrative elements, the film

is more focused on fleshing out characters than creating significant plot points. The two lead characters both reel back from continuing further in their relationship at different points in the movie, and it emphasizes their subsequent reactions rather than specific events. For example, after Oliver begins avoiding Elio, Elio preoccupies himself by spending time in his familiar hobbies and swimming with Marzia. Due to this focus on characters, most of the film depends on the performances of Chalamet and Hammer, who both succeed with flying colors. Chalamet in particular is masterful at capturing Elio's inner turmoil, as he goes from confidently flirting with Oliver to passive-aggressively lashing out at his parents for inviting a gay couple over. Resembling a young Harrison Ford, Hammer is also quite capable in exuding confidence and expressing romantic interest as Oliver. The downside of the film's approach to storytelling is that there is very little dramatic tension at times, which makes viewing a slog when combined with the film's tendency to excess. There are so many scenes involving mundane activities such as eating lunch or swimming that the film feels overly long at points.

It is somewhat misleading to say this, but the most powerful part of the film is its ending. There are two scenes in particular that are worth mentioning: the speech given by Elio's father and the closing credits. Michael Stuhlbarg, who plays Elio's father, delivers a monologue that is emotionally cathartic and moving. During the credits, Chalamet's ability to impart so much emotion in doing an act as simple as staring into a fireplace is astonishing, and Stevens's "Visions of Gideon" enhances the scene to great extent. These two scenes make waiting through the slowmoving sections worth the trouble. If one can get past the film's uneventful nature, the film will reward with audiovisual splendor and

LAB OF THE WEEK

Characterizing ancient materials for the modern day

Linda Seymour of the Masic Group investigates the longevity of ancient Roman concrete

The Masic Group: Laboratory for Multiscale Characterization and Materials Design

Room 1-347

Course 1: Civil and Environmental Engineering

By Nafisa Syed

SCIENCE EDITOR

Ancient buildings are useful for learning how past civilizations lived, as well as the aesthetic values and architecture of their respective time periods. Surprisingly, we can also glean technological information from these grand structures — in particular, we can examine the materials with which they were built to learn how and why they remain standing today.

Part of the Masic Group's work focuses on analyzing these structural materials, hoping to draw inspiration from ancient materials as well as biological ones to inform the production of new materials. Linda Seymour, a graduate student in Masic Group, is particularly interested in Roman concrete and mortars. "There's no denying that Roman concrete, Roman structures, have been standing for 2,000 years. I can't exactly mimic that in a lab in six months. So we're taking these known examples and trying to figure out — but why? How has it been standing for 2,000 years when our concrete structures fail after 50 to 100 years?"

The many workbenches in the Masic Group contain a variety of specimens, from Roman mortar to terracotta tile. At one corner of the lab sits a Raman microscope that can analyze structural connections between atoms, and at the other end, tools that can distinguish between types of mortar at an archeological dig site.

For Seymour, these tools are invaluable for learning from ancient materials: "What we're trying to do with these machines is to chemically characterize ancient structural materials, such as Roman mortar, that we have clear proof that they've lasted for millennia." She hopes to reverse-engineer the chemical aspects of Roman materials to find out what makes them so durable. Her first project in Masic Group involved examining cocciopesto, a material made from crushed pottery. The ancient Romans used cocciopesto in structures exposed to water to help them last longer.

Seymour attempted to determine the chemical interaction occurring in cocciopesto by adding the material to Ordinary Portland Cement (OPC), which is the cement conventionally used in structures today. Using the Raman microscope, she found that the OPC interacted with the cocciopesto to create calcium silica hydrate (CSH), a primary structural component of modern cement. "The cocciopesto was not only acting as an aggregate, but it was also acting as a reactive material within the concrete, which is really exciting. It was really cool to see that this ancient material or ancient-inspired material was working in unison with our modern material. That was the first glimmer of hope that we would be able to do this."

More recently, Seymour has been intrigued by a phenomenon that occurs in Roman concrete but not in Ordinary Portland Cement. She notes that the binding phases we observe in the ancient Roman concrete are "gel, amorphous phases — they're not really crystalline ... Even after 2,000 years, we have these gel-like phases present, they haven't all crystallized over time."

Seymour hopes to get to the bottom of the crystallization mystery by looking holistically at the concrete samples to understand their chemical composition and how these chemicals interact with each other. She is limited, however, by the samples' time scale. "The problem with trying to un-



COURTESY OF THE MASIC GROUP

Masic Group graduate student Linda Seymour (center) instructs students in 1.057 as they prepare cement samples.

derstand this is that all of our Roman samples are over 2,000 years old. We don't have a 500-year-old sample to compare it with, or even a 1,000-year-old sample to compare it with. We don't necessarily have too many snapshots in time, unless they're just a couple centuries apart."

Seymour continues to work toward a better understanding of these ancient materials by reconstructing them. As part of the Course 1 mini-UROP program, Seymour supervised two undergraduate students as they mixed Roman concrete and Ordinary Portland Cement to compare their properties. The cement blocks are in the shape of small cylinders, with the Roman concrete crumbling at the touch in comparison to its rigid OPC counterpart.

The differences between these two concrete blocks explains why we don't use Roman concrete today. "Ordinary Portland Cement chemically sets much faster than Roman concrete does. Roman cement takes on the order of months to set, whereas

Ordinary Portland Cement reaches 98 percent of its strength in 28 days, much quicker." OPC is also much stronger than Roman cement, but according to Seymour, Roman cement's longevity may be more valuable. "Do we really need to be able to hold all of this stuff, if we're just building a road? Is that necessary to have such high strength?"

In addition to investigating antiqua-inspired and bioinspired materials, the Masic Group provides learning opportunities to undergraduates by sponsoring a trip to Italy for research fieldwork. "We're all about teaching others that we can look at these materials differently than we've traditionally thought. A lot of times we're looking at old materials to try and figure out, 'What were they thinking? What were they doing?' for that historical perspective, which is really important, and has informed a lot of really interesting research, but we're trying to take it to that next level and say, 'What were they doing and how can we make it better?"

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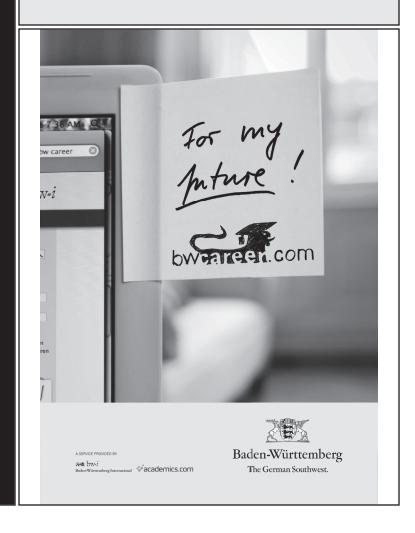
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- 1 Pac-12 school
- 5 Attempt to mediate 11 Contacts-list abbr.
- 14 Cool, in the '90s
- 15 Gaming center
- 16 Golden Gate or Presidio, in SF
- 17 WRONG: __ after __ (very soon)
- 19 Upper-body muscle
- 20 Choral platform
- 21 Musketeer's battle 22 Nonstandard negative
- 23 Is repentant
- 25 Rather tall
- 27 Longstanding squabble
- 28 Auto radiator part
- 32 Interior appointments 33 What Tweety calls his adversary
- 34 RIGHT: __ before _
- (optimistic outlook) 36 Morocco neighbor
- 37 WRONG: __ after __ (CIA

- directive)
- 41 Cold War adversary
- 44 Formally pass
- 45 Tiny fraction of a min. 46 Do tunneling
- 47 Dumpling of India
- 49 Well-deserved
- 51 "Jabberwocky" starter
- 52 Gooey mess
- 56 Make think twice
- 57 Loathsome
- 58 RIGHT: __ before _
- (Matthew 7:6 phrase) 60 Important stretch
- 61 Founder of the Shakers
- 62 Stretches (out)
- 63 Prime-time hour 64 Visit overnight
- 65 Vacuum bag contents

DOWN

- 1 Kite lifter
- 2 Spicy, hot drink 3 Describes in detail
- 4 Show up

- 5 Director Mendes
- 6 Stepped (on)
- 7 Shade of beige
- 9 Fan fixations
- 10 Never seen before
- 11 Pudding flavor
- 12 Still, surprisingly

- 24 Petroleum source
- 29 Ballpark music maker
- 30 Train depot displays
- 31 Strangely scary
- 37 Horse handicapper's
- 38 Not clued in
- 39 Fasting period

- 8 Whittle down

- 13 Professor's stand
- 18 Deposit in underground banks
- 22 Felled in a forest
- 26 Badge of a sort

- 34 Tavern diversion
- 35 As of
- favorite
- 40 Some PX patrons 41 Heyerdahl's raft
- 42 More ecological 43 Recuperation aid
- 46 Concocted
- 48 Authorized representative 50 Magazine thickener

18

36

61

20

23

33

47

51

57

60

37 | 38 | 39 | 40

- 53 Pop singer Del Rey
- 54 Air France secondary hub

62

55 Earnest request

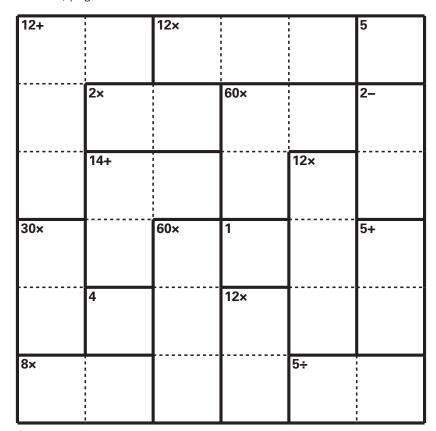
49

58 Ballet step

59 Sank below the horizon

Spring is Coming

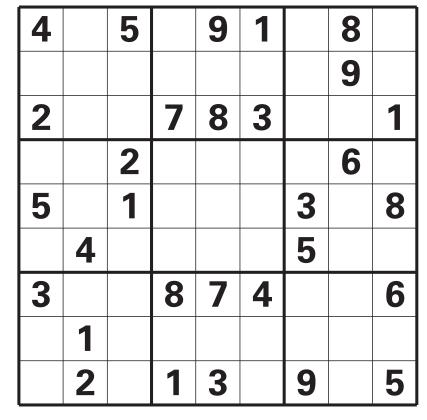
Solution, page 12



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

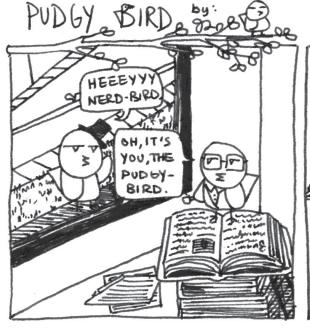
Or Maybe Not

Solution, page 12



Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Pset Revisited by Pudgy Bird



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SPORTS BLITZ

Women's Swimming and **Diving** (5–5, 3–0 NEWMAC) fell to Amherst College on senior day, but the Engineers sent an all-time record of 15 student athletes to the NEW-MAC Academic All-Conference team. The honorees were Jessica Chen '18, Mary Thielking '18, Addie Chambers '19, Kim Feng '19, Morgan Matranga '19, Dolly Payne '19, Clare Wieland '19, Delaney Burns '20, Kayla Holman '20, Alexandrine Obrand '20, Lilia Staszel '20, Nanette Wu '20, Priscilla Wu '20, Emily Zhang '20, and Blake Zhou '20.

Men's Basketball (20-5, 10-4 NEWMAC) is back in the winning groove, thanks in large part to AJ Jurko '19, who

earned well-deserved NEW-MAC Offensive Player of the Week honors. The last time he accomplished that feat was a couple of weeks ago. The Engineers will face a familiar foe when they collide in a semifinal matchup against the No. 2, Babson.

Men's Fencing (15–9, 8–2 NEWMAC) displayed grit at the Beanpot, despite some losses to Harvard and Brandeis early on. The Engineers fought back with a close win against BC. The event was highlighted by the performances of Sheel Patel '20 (6–1 record, epee) and Tzer Wong '18 (6–3 record, sabre). Patel and Wong joined teammates Nyle Sykes '21 and Joshua Talbot '21 on the Northeast Fencing Conference

(NFC) all-star team. Wong became the third Engineer in history to be named a sabre all-star four times, thanks to his 25–3 performance in the NFC.

Men's Tennis (1-1) started the season by splitting a double-header against Boston University and Merrimack College at home. Their matchup against BU was hard-fought. They performed well on doubles but were outperformed on singles, resulting to a 4-3 overall loss. The Engineers, however, dominated Merrimack. In the only doubles matchup, Merrimack won but the opposition had no answer to the Engineers' singles players, as Sean Ko '19, Albert Go '20, and Pablo Ampudia '21 cruised to wins to sweep the singles and

earn the 3-1 overall win.

Men's Track and Field placed second at the New England Division III Indoor Championship. Twenty-one All-New England performers were involved in the victorious performance as the Engineers were short of just Tufts University.

Men's Volleyball (9-2, 2-2 NEWMAC) has had an adventurous time lately. After edging out St. John Fisher College in a nailbiter 3-2, they were nudged around by Stevens Institute of Technology as they fell in straight sets. However, the Engineers recovered immediately to sweep New York University. The dominant rebound performance marked the first time the Engineers have defeated NYU since 2014.

Solution to Alphabet from page 10 UCLA STEPIN TEL PHAT ARCADE AVE DAYTOMORROW PEC RISER DUEL AINT ATONES SIXONE FEUD HOSE DECOR TAT DARKESTDAWN ALGERIA BURNREADING KGB ENACT NSEC BORE SAMOSA EARNED TWAS GLOP DETER BAD PEARLSSWINE ERA ANNLEE EKES TEN STAYAT DIRT

Solution to Spring

from page 10

2	6	1	4	3	5
3	1	2	5	4	6
1	5	6	3	2	4
5	3	4	1	6	2
6	4	5	2	1	3
4	2	3	6	5	1

Solution to Not

from page 10

1 1 9 -										
4	7	5	2	9	1	6	8	3		
1	3	8	4			7	9	2		
2	9	6	7	8	3	4	5	1		
9	8	2	3	5	7	1		4		
5	6	1	9		2	3		8		
7	4	3	6	1	8	5	2	9		
3	5	9	8	7	4	2	1	6		
6	1	4	5	2	9	8		7		
8	2	7	1	3	6	9	4	5		



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